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Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Sheet 1 of 1		Application Number	10/808,222	
		Filing Date	March 23, 2004	
		First named Inventor	Mark S. Lutz	
		Group Art Unit	3725	
		Examiner name	Faye Francis	
		Attorney Docket Number	049256-9004-00	
U.S. Patent Documents				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		6,892,973	Johansson et al.	5/17/2005
FF		6,915,711	Backlund et al.	7/12/2005

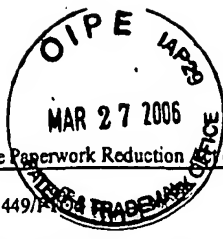
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract

Examiner Signature	Faye Fran.	Date Considered	4/24/06
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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			First Named Inventor	Mark. S. Lutz	
			Group Art Unit	3725	
			Examiner Name	Faye Francis	
Sheet	1	of	8	Attorney Docket Number	049256-9004

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		1,151,131	Starliper	8/24/1915
		2,116,584	Shelby	5/10/1938
		2,335,358	Ray	11/30/1943
		2,353,444	Conradty et al.	7/11/1944
		2,843,646	Conant	7/15/1958
		3,069,752	Sherning	12/25/1962
		3,091,844	Laine	6/4/1963
		3309031	McMahon et al.	3/14/1967
		3379578	McTaggart et al.	4/23/1968
		3466200	Mellor et al.	9/9/1969
		3539400	Pustell	11/10/1970
		3553827	Baker et al.	1/12/1971
		3604645	Keyes, IV	9/14/1971
		3617006	Jones	11/2/1971
		3617717	Smith	11/2/1971
		3650891	Dahlin	3/21/1972
✓		3711687	Stout et al.	1/16/1973

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Sheet	2	of	8	Attorney Docket Number	049256-9004

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		3847359	Holmes et al.	11/12/1974
I		3867205	Schley	2/18/1975
		3947668	Al-Shaikh et al.	3/30/1976
		4023739	Lampe et al.	5/17/1977
		4060716	Pekrul et al.	11/29/1977
		4070761	Collins	1/31/1978
		4071451	Wood	1/31/1978
		4148439	Floden	4/10/1979
		4184204	Flohr	1/15/1980
		4211324	Ohlbach	7/8/1980
		4227927	Black et al.	10/14/1980
		4268381	Hooper	5/19/1981
		4313465	Holzem et al.	2/2/1982
		4314878	Lee	2/9/1982
		4430221	Spiewok	2/7/1984
		4454991	Brenholdt	6/19/1984
✓		4498137	Flohr	2/5/1985

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		4581300	Hoppin III, et al.	4/8/1986
		4581813	Terhune	4/15/1986
		4582568	Iyengar	4/15/1986
		4587707	Nishida et al.	5/13/1986
		4614296	Lesgourgues	9/30/1986
		4626318	Prough et al.	12/2/1986
		4627578	Whyte	12/9/1986
		4661911	Ellery, Sr.	4/28/1987
		4670215	Morishita et al.	6/2/1987
		4672529	Kupersmit	6/9/1987
		4673875	Kjellqvist et al.	6/16/1987
		4688726	Brenholdt	8/25/1987
		4730252	Bradshaw	3/8/1988
		4745254	Funk	5/17/1988
		4820980	Dodson-Edgars	4/11/1989
		4837417	Funk	6/6/1989
✓		4858103	Takeuchi et al.	8/15/1989

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		4878020	Karna et al.	10/31/1989
		4887208	Schneider et al.	12/12/1989
		4920488	Filley	4/24/1990
		4943347	Floden	7/24/1990
		4950986	Guerrero	8/21/1990
		4972318	Brown et al.	11/20/1990
		4980123	Gedeon et al.	12/25/1990
		4994971	Poelstra	2/19/1991
		5007985	Engstrand et al.	4/16/1991
		5009774	LeBlanc	4/23/1991
		5011065	Musselmann	4/30/1991
		5011088	Savonjousi	4/30/1991
		5011090	Savonjousi	4/30/1991
		5016824	Pietinen et al.	5/21/1991
		5042726	Reinhall	8/27/1991
		5063380	Wakura	11/5/1991
✓		5064536	Bratten	11/12/1991

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		5067660	Reinhal	11/26/1991
		5071514	Francis	12/10/1991
		5081039	Buttke et al.	1/14/1992
		5091713	Horne et al.	2/25/1992
		5233542	Hohner et al.	8/3/1993
		5425508	Chaney	6/20/1995
		5445328	Musselman	8/29/1995
		5491340	Saارين	2/13/1996
		5500088	Allison et al.	3/19/1996
		5500735	Bentley et al.	3/19/1996
		5544819	Shepherd	8/13/1996
		5555171	Sonehara et al.	9/10/1996
		5581019	Minor et al.	12/3/1996
		5586305	Eidson et al.	12/17/1996
		5600058	Preikschat et al.	2/4/1997
		5601690	Gauld et al.	2/11/1997
✓		5638284	Helmer et al.	6/10/1997

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				Examiner Name	Faye Francis
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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		5666493	Wojcik et al.	9/9/1997
		5680320	Helmer et al.	10/21/1997
		5682473	Carson et al.	10/28/1997
		5684247	Preikschat	11/4/1997
		5687098	Grumstrup et al.	11/11/1997
		5691636	Allshouse et al.	11/25/1997
		5718389	Finken et al.	2/17/1998
		5745365	Parker	4/28/1998
		5747707	Johansson et al.	5/5/1998
		5758329	Wojcik et al.	5/26/1998
		5823453	Garasimowicz	10/20/1998
		5825653	Huovila, et al.	10/20/1998
		5966679	Snowbarger et al.	10/12/1999
		5975438	Garasimowicz	11/2/1999
		5991636	Won et al.	11/23/1999
		6024309	Karlstrom	2/15/2000
		6092003	Hagart-Alexander et al.	7/18/2000

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
FF		D431826	Karlstrom	10/10/2000
		6157916	Hoffman	12/5/2000
		6200421	Meinander	3/13/2001
		6206309	Danielsson et al.	3/27/2001
		6290816	Graf	9/18/2001
		6314381	Johansson	11/6/2001
		6317701	Pyotsia et al.	11/13/2001
		6324490	Johansson et al.	11/27/2001
		6502774	Johansson et al.	1/7/2003
		6587803	Johansson	7/1/2003
		2001/0032898	Bankes et al.	10/25/2001
		2002/0013635	Gotou et al.	1/31/2002

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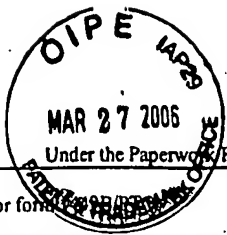
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
FF	CH	546600	HAUSER PAUL KORUMA MASCHINENBA	3/15/1974		
	DE	2145096	PAUL HAUSER KORUMA- MASCHINEN	1/11/1973		
	EP	0640395	ALLSHOUSE GARY W (US); CAWThERN JAMES E JR (US); HOPKINS RANDALL K (US)	3/1/1995		
	GB	1468649	YHTYNEET PAPERITEHTAAT OY	3/30/1977		
	WO	83/01969	WIKDAHL NILS ANDERS LENNART (SE)	6/9/1983		
	WO	89/00624	PIETINEN PERTTI (FI); SAVONJOUSI ASLAK (FI)	1/26/1989		
	WO	96/14156	KARLSTROEM ANDERS (SE); ENGSTRAND PER (SE)	5/17/1996		
	WO	97/23018	GRUNDSTROEM GOERGEN (SE); KARLSSON NICLAS (SE)	6/26/1997		
	WO	97/24596	LEINONEN KIMMO (FI)	7/10/1997		
	WO	97/38792	KARLSTROEM ANDERS (SE)	10/23/1997		
	WO	98/48936	DE RADIGUES HERVE (BE); HINDRYCKX JEAN-CLAUDE (BE)	11/5/1998		
	WO	98/58243	KARLSTROEM ANDERS (SE); GRUNDSTROEM GOERGEN (SE)	12/23/1998		

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Sheet	<u>1</u>	of	<u>6</u>	Attorney Docket Number	<u>049256-9004</u>

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
FF	1 W.E. LUNAN, K.B. MILES AND W.D. MAY, The Effect of Differential Pressure on Energy Consumption in Thermo-mechanical Pulping, Journal of Pulp and Paper Science; vol. 11, No. 5, Sep. 1985, pp. J129-J135.
	2 K.B. MILES and W.D. MAY, Pulp and Paper Research Institute of Canada, Predicting the Performance of a Chip Refiner; A Constitutive Approach, 1991 International Mechanical Pulping Conference, pp. 295-301.
	3 H.R. DANA, W.D. MAY, K.B. MILES and B.G. NEWMAN, Pulp and Paper Research Institute of Canada, Pointe Claire, P.Q., A Study of Steam Flow and Self-Pressurization in Chip Refiners, Transactions, vol. 1, No. 3, Sep. 1975, pp. 82-88.
	4 K.B. MILES and W.D. MAY, Pulp and Paper Research Institute of Canada 1989 Annual Meeting, The Flow of Pulp in Chip Refiners, pp. A177-A188.
	5 WILLIAM HERBERT and P.G. MARSH, Mechanics and Fluid Dynamics of a Disk Refiner, Tappi, vol. 51, No. 5, May 1968, pp. 235-239.
	6 A Master's thesis by ALEXANDER HORCH, Modeling and Control of a Thermo Mechanical Pulp Refiner, Dec 7, 1995.
	7 HELMUT BECKER, HANS HOGLUND and GORAN TISTAD, Frequency and temperature in chip refining, Papperi ja Puu-Papper och Tra, No. 3, 1977.
	8 D. ATACK and M.I. STATIONWALA, Pulp and Paper Research Institute of Canada, On the Measurement of Temperature and Pressure in the Refining Zone of an Open Discharge Refiner, Transactions, vol. 1, No. 3, pp. 71-76, Sep. 1975.
	9 ESKO HARKONEN, SEPPO ROUTTU, ARI RUOTU AND OLA JOHANSSON, A Theoretical Model for a TMP-Refiner, Jun. 9-13, 1997, pp. 95-102, 1997 International Pulping Conference, Stockholm, Sweden.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
FF	10	B.G. NEWMAN, M.I. STATIONWALA AND D. ATTACK, Pulp and Paper Research Institute of Canada, Analysis of Steam Flow in Disc Refining, SPCI International Mechanical Pulping Conference, May 6-10, 1985, pp. 60-67.
	11	PER A. GRADIN, OLA JOHANSSON, JAN-ERIK BERG AND STAFFAN SYSTROM, Measurement of the Power Distribution in a Single Disc Refiner, J. Pulp Paper Science 25, No. 11: 384-387 (1999).
	12	M.I. STATIONWALA, D. ATTACK, J.R. WOOD, D.J. WILD, AND A. KARNIS, Pulp and Paper Research Institute of Canada, The Effect of Control Variables on Refining Zone Conditions and Pulp Properties, Pap. Puu 73, No. 1: 62-69 (Jan 1991).
	13	MARC. J. SABOURIN, ERIC XU, J. BRAD CORT, IVAN BOILEAU AND ANDREW WALLER, Optimizing Residence Time, Temperature and Speed to Improve TMP Pulp Properties and Reduce Energy, Pulp Pap. Can. 98, No. 4: 38-45, Apr. 1997.
	14	K.B. MILES, H.R. DANA AND W. D. MAY, The Flow of Steam in Chip Refiners, CCPA Conf. Technol. E. Stivale 55-60 (Jun. 2-5, 1982), pp. 30-42.
	15	OLA JOHANSSON, MARK FRITH, BO FALK AND ROBERT GAREAU, Thermopulp®-Recent Process Developments and Experiences, 84th Annual Meeting of the Technical Section of the CCPA; Papers Presented Jan. 29-30, 1998, pp. 1-11.
	16	OMEGA Thermocouple of Calibrator Handbook (1996).
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✓	18	83rd Annual Meeting, Technical Section, Canadian Pulp & Paper Association, Papers Presented on Tuesday and Wednesday, Jan 28-29, 1997, Preprints A, Electronic Customer Data Management System, pp. A53-A56.

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				Application Number	10/808,222
				Filing Date	03/23/2004
				First Named Inventor	Mark. S. Lutz
				Group Art Unit	3725
				Examiner Name	Faye Francis
Sheet	3	of	6	Attorney Docket Number	049256-9004

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
FF	19	OMEGADYNE™ Pressure, Force, Load Torque Databook (1996), Chapters B, C, D, E, F, G, H, and J.
	20	BILL GOUGH, JOHN KAY, AND GREG SEEBACH, Canadian Pulp & Paper Association, Technical Section, 79th Annual meeting, Preprints A, Adaptive Control Applications in Pulp and Paper, pp. A73-A84, Jan. 26-27, 1993.
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	22	M. SPENCE, K. DANIELSON, Y. YING, AND M. RAO, Canadian Pulp & Paper Association, Technical Section, 79th Annual Meeting, Preprints A, On-Line Advisory Expert Development at Daishowa Peace River Pulp, pp. A143-A147, Jan. 26-27, 1993.
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FF	28	KENNETH W. BRITT, Ed., Handbook of Pulp and Paper Technology, 2nd Ed. (1970), Chapter 5.
I	29	M. FOURNIER, H. MA, P.M. SHALLHORN, AND A.A. ROCHE, Control of Chip Refiner Operation, 1991 Int'l Mech. Pulping Conf. Proc., pp. 91-100.
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✓	36	KARIN ERIKSSON, Performance Analysis in TMP Refining, Thesis for Dept. of Signals and Systems, Chalmers. University of Technology, Goteberg, Sweden (2001).

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FF	37	BeInZero AB Refiner Control System documentation, "Get to Know Your Refiners", p. 1-19 and appendices 1 and 2 (2000).
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FF	46	LARS SUNDSTROM, ROY TONNESEN, AND LENNART NILSSON, Multivariate Monitoring of a Chip Feeding Process, 2001 Int'l Mech. Pulping Conf. Proc., pp. 523-529.
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	48	OLA JOHANSSON, DAN HOGAN, DALE BLANKENSHIP, EDDIE SNOW, WYLLYS MORE, RONNIE QUALLS, KEITH PUGH, AND MIKE WANDERER, Improved Process Optimization Through Adjustable Refiner Plates, 2001 Int'l Mech. Pulping Conf. Proc., pp. 579-589.
	49	FREDRIK ROSENQVIST, KARIN ERIKSSON AND ANDERS KARLSTROM, Time-Variant Modelling of TMP Refining, undated.
	50	FREDRIK ROSENQVIST, KARIN ERIKSSON, AND ANDERS KARLSTROM, Modelling a Thermomechanical Wood-Chip Refiner, undated.
	51	Plant Information (PI™) system brochure, OSI Software Inc., undated.
	52	J&L Fiber Services, J&L Smart Plates™ Selling Training Class to help you "Take Control", Feb. 22, 2000.
	53	I. AARNI AND J. VIRKKUNEN, Modelling and Simulation of the Thermomechanical Pulping Process, IFAC PRP Automation, Ghent, Belgium 1980, pp. 219-226.
	54	M. PRESS AND A.S. ARROTT, An Analysis of Steam Flow In A Chip Refiner, Can. J. Phys. Vol. 57, 1979, pp. 390-396.

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